

City of Newport Beach

Water Quality/Coastal Tidelands Committee Minutes

Date: September 11, 2014

Time: 3:00 p.m.

Location: Newport Coast Conference Room, 2nd Floor, Bay E

1. Welcome/Self Introductions

Committee Members present:

Chairwoman/Council Member Nancy Gardner

Mike Henn/Council Member

Dennis Baker

Carl Cassidy

Lou Denger

Tom Houston

Fred Galluccio

George Robertson

Guests present:

Jim Mosher, resident

Nancy and Jack Skinner, S.P.O.N.

Philip Bettencourt, Bettencourt & Associates

Billy Dutton, Help Your Harbor

Monika Galluccio, resident

Staff present:

George Murdoch, Utilities General Manager/Municipal Operations Co-Director

John Kappeler, Water Quality Manager

Shane Burckle, Water Conservation Coordinator

Shari Rooks, Public Works Specialist

Steve Montano, Finance Deputy Director

The agenda for the Water Quality/Coastal Tidelands Committee was posted at 3:20 pm on September 3, 2014, in the binder located in the entrance of the Council Chambers at 100 Civic Center Drive.

2. Approval of Previous Meeting's Minutes

The August 14th meeting minutes were approved.

3. Old Business

a. Bay and Ocean Bacteriological Test Results

John Kappeler reviewed recent water quality test results within Newport Bay and along the ocean shoreline.

- Results from intensive testing of the Arches area from a month or so ago are back and all the samples were "hot" – all the way up to the Continuous Deflection Units (CDS). There is a bacteria plume coming from somewhere and we have submitted a grant to the State Board for \$1.2M asking for funds to do a more intensive study,

source investigation and to possibly put some tide gates at the outlet or a sewer diversion. It is a research/implementation grant.

- **Billy Dutton** asked how long it would take to get the grant money and **John Kappeler** told him it could take as long as a year and a half.
- **Jack Skinner** asked if the testing samples showed whether the pipe entering from the left or the right was “hotter” and was told they were both “hot.”

b. 2014 Committee Goals and Priorities

- Catch basin cleaning topic is scheduled to be discussed at the second Council meeting in October.

4. New Business

a. California Water Supply and Drought Update – George Murdoch gave the Committee a review of the current status of the drought and the Governor’s drought proclamation. (See attached presentation).

- We get 72% of our water from groundwater and that includes water purchased from the Orange County Water District (OCWD) and four city-owned wells in Fountain Valley.
- OCWD purchased \$79.3M in imported water for the basin in the past three years and the SWRCB authorized using reserves to purchase imported water to recharge the groundwater basin.
- By February of 2015 all of Sanitation District Plant 1’s tertiary-treated wastewater flows will be recycled to replenish the groundwater basin and there are studies to find ways to recycle an additional 30,000 acre/foot/year of tertiary-treated wastewater from Sanitation District Plant 2.
- The other 28% comes from outside import sources and includes water purchased from the Metropolitan Water District (MWD) through the Municipal Water District of Orange County (MWDOC) – mostly Colorado River water. Another MWD source is the California Aqueduct, but Southern California’s allocation for this year was zero percent.
- State Water Resources Control Board (SWRCB) adopted emergency regulations for statewide urban water conservation on July 15, 2014 in response to the Governor’s call to redouble efforts for conservation throughout the state.
- SWRCB Regulation Article 22.5 says that the City must implement a water shortage contingency plan that imposes restrictions on outdoor irrigation and submit a monitoring report to the Board each month.
- City Council adopted Level One Water Conservation Restrictions on September 9, 2014.

b. Newport Beach’s Level One Water Conservation Restrictions – George Murdoch gave an update on the implementation of the City’s Level One mandatory water conservation restrictions. **Section 14.16.060 [Link to Municipal Codes](#).**

- Sets irrigation schedule to 4 days per week (April – October) and 2 days per week (November – March).
- Sets all customer usage between 90%-100% of base amount. The base amount is a 3-year moving average of the customer’s usage during that same billing period.

- Residential municipal service bills show a graph reflecting a 3-year baseline as well as the current usage so residents can compare current usage to previous years.
- There are exemptions for water used for public health/safety, public pool refilling, fuel modification areas, hospitals, medical facilities and nurseries.
- The Public Utilities Commission (PUC) has mandated Southern California Gas Company and Southern California Edison (SCE) to look at water leak detection as part of a water/energy nexus the PUC is pushing. The City hopes to partner with SCE in a pilot program to put an antenna on the City tower at 16th Street to send the Smart Meter data from 25 meters throughout the City to the PUC's Leak Detection Program.
- **Jim Mosher** asked if the City performed water audits and was told they were done quarterly and we see approximately a 4-6% loss. (The acceptable percentage is up to 10% of usage). He asked about the accuracy of the water meters and was told that \$.5M was approved this fiscal year to begin replacing aging meters. Meters are randomly picked from every side of the City, from residential as well as commercial customers and tested to make sure they are accurate. The cost of a typical meter is \$35 and the cost of a Smart Meter is \$150.
- Websites for more information: www.newportbeachca.gov/water
www.watersmartnewport.org
www.bewaterwise.com
www.ca.gov/drought

c. Newport Beach Water Usage – Shane Burckle gave an update on water usage within Newport Beach, including a discussion on water conservation savings and future actions, i.e. water conservation rebates, Water Smart Newport and tiered water rates. (See attached presentation).

Steve Montano gave an update on the City's new finance software and the multi-year implementation schedule.

- In July of 2014 the residential usage was 137 Gallons Per Capita per Day (GPCD) and that represented 52% of all water usage. The monthly total for residential and commercial (excluding fire flow, hydrants, boat docks and pump stations, etc.) was 265 GPCD.
- In 2015 the residential and commercial usage was 228 GPCD.
- If a single family home used their baseline GPCD it would save \$16M gallons per month. There are 4,000 single family homes that are over their baseline. Out of 19,000 homes we have over 10,000 who are not meeting their target.
- Creative Outreach through the WaterSmart Program currently provides a personalized Home Water Report to 5,500 homes with customized messaging, comparisons and recommendations via email reports.
- If the City chooses to go to an allocation-based rate structure it would depend on two major factors: software with a utility billing system and customer service support.
- The City purchased an Enterprise Resource Planning (ERP) software package 18 months ago to upgrade our finance, human resources, payroll and utility billing systems. The ERP will be implemented in four major phases over 25 months and began in May of this year with the base module or the finance system. The finance system integration will continue through July 2015. There are overlapping systems and the next phase will be the human resources phase and it begins in January and

goes through that year. In June of 2016 is when we begin the third phase which is utility billing. Although we are not implementing the utility billing phase yet, because of recent events we crafted a list of desired specifications we want that module to be capable of and we submitted that list to the software designer. Within 5 weeks we should have a reply from them as to what the software can deliver out of the box. We have set aside money to do modifications if needed, but we haven't made that decision yet.

- **Tom Houston** asked what the City's position on the Poseidon desalination project in Huntington Beach was. The City Council never approved or disapproved of the project, but they submitted a letter of interest to Poseidon LLP in 2008 and along with other agencies so a representative could attend working groups and gather information up until October 2013 when Poseidon LLP submitted their application to the Coastal Commission.

ACTION: **Shane Burckle** to work on putting together a very basic guideline for residents interested in information regarding grey water systems.

5. Public Comments on Non-Agenda Items

6. Topics for Future Agendas

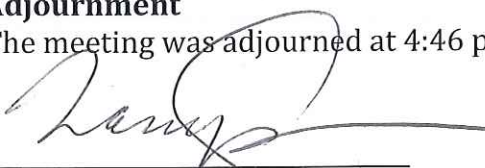
- (a) Bacteriological Dry-Weather Runoff Gutter Study (Phase III)
- (b) Prop 84 ASBS Grant Program
- (c) Senate Bill – SB 1447
- (d) Eelgrass Program
- (e) Trash Project for Storm Drains
- (f) Harbor Commission Copper Report
- (g) Orange County Coastal Regional Sediment Management Plan
- (h) Sediment Quality Objectives (SQOs)
- (i) NPDES Fifth Term Draft Permit
- (j) Adopting a Natural Source Exclusion
- (k) Banning Ranch
- (l) Grey Water

7. Set Next Meeting Date

The next meeting date was set for October 9, 2014 at 3 PM in the **Newport Coast Conference Room, Bay E, 2nd Floor.**

8. Adjournment

The meeting was adjourned at 4:46 pm.



Chairwoman / Nancy Gardner

Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program
Total Coliform (TC), Fecal Coliform, Enterococcus (ENT) Colony Forming Units / 100 ml Sample

| STATION | Location Description | | 5/5/14 | 5/12/14 | 5/19/14 | 5/27/14 | 6/2/14 | 6/9/14 | 6/16/14 | 6/23/14 | 6/30/14 | 7/7/14 | 7/14/14 | 7/21/14 | 7/28/14 | 8/4/14 | 8/11/14 | 8/18/14 | 8/25/14 | 9/2/14 | 9/8/14 |
|-------------------------|--------------------------|-----|--------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|--------|---------|---------|---------|--------|--------|
| NEWPORT BAY (Lower Bay) | | | | | | | | | | | | | | | | | | | | | |
| BNB09 | 43rd Street Beach | TC | >10 | <10 | >230 | 80 | >10 | <10 | <10 | >10 | >95 | >150 | >240 | >200 | >340 | >200 | <10 | 60 | 20 | 20 | >300 |
| | | FC | <10 | <10 | 20 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 20 | <10 | 10 | >10 | <10 | <10 | <10 | 10 | 10 |
| | | ENT | 2 | 2 | <2 | 8 | <2 | <2 | <2 | 2 | 4 | 10 | 10 | <2 | 2 | 20 | <2 | 2 | <2 | <2 | <2 |
| BNB10 | 38th Street Beach | TC | >10 | <10 | 10 | 100 | >20 | <10 | <10 | >20 | >150 | >50 | >80 | >20 | >340 | >190 | >450 | <10 | 80 | >10 | >40 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 80 | <10 | 30 | <10 | >10 | 10 | <10 | <10 | <10 | <10 | <10 |
| | | ENT | 4 | 4 | <2 | 2 | 20 | <2 | <2 | 6 | 10 | 36 | 10 | 2 | 6 | 34 | 2 | <2 | <2 | <2 | 6 |
| BNB11 | 33rd Street Channel | TC | >40 | 10 | >30 | <10 | <10 | <10 | 10 | >290 | >500 | >340 | >80 | >50 | >260 | >6400 | <10 | 120 | 10 | <10 | <10 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 20 | <10 | 30 | <10 | <10 | >40 | >360 | <10 | <10 | <10 | <10 | <10 |
| | | ENT | 32 | 10 | <2 | <2 | <2 | 2 | <2 | 150 | 10 | 20 | 4 | 4 | 2 | 400 | <2 | <2 | <2 | <2 | <2 |
| BNB32 | Lido Yacht Club Beach | TC | >100 | 80 | <200 | <10 | <10 | 190 | >20 | <10 | >170 | >95 | <10 | <10 | >20 | <10 | >10 | 10 | >10 | 30 | 110 |
| | | FC | <10 | 50 | <10 | <10 | <10 | 140 | <10 | <10 | 100 | <10 | <10 | <10 | 10 | <10 | <10 | 10 | <10 | <10 | 40 |
| | | ENT | 8 | <2 | 2 | <2 | 4 | 20 | 34 | 2 | <2 | 46 | 2 | 4 | <2 | 8 | 82 | <2 | 10 | 2 | 48 |
| BNB07 | Via Genoa Beach | TC | <10 | 10 | <10 | 10 | <10 | 10 | 10 | <10 | >10 | 20 | 110 | 70 | 10 | >10 | <10 | <10 | <10 | 10 | 10 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 10 | 30 | 10 | 120 | 10 | <10 | 20 | <10 | <10 | 10 | 10 |
| | | ENT | <2 | <2 | 2 | 2 | <2 | <2 | <2 | <2 | <2 | 26 | 2 | 4 | 2 | <2 | 6 | 2 | 2 | <2 | 6 |
| BNB35 | Newport Blvd. Bridge | TC | 70 | 40 | >230 | >2050 | 120 | 1270 | >5400 | 20 | >15000 | >630 | >9400 | 9000 | 30 | >8600 | 30 | <10 | 80 | 15000 | >1150 |
| | | FC | <10 | <10 | <10 | <10 | 10 | 10 | 1080 | <10 | 6800 | 170 | 5800 | 6800 | 10 | 1130 | 10 | <10 | <10 | 5800 | 270 |
| | | ENT | 6 | <2 | 20 | 52 | 4 | 8 | 800 | 2 | 180 | 180 | 2400 | 4 | 6 | 140 | <2 | <2 | 2 | 34 | 52 |
| BNB12 | Rhine Channel | TC | >60 | 60 | 20 | <10 | <10 | 110 | <200 | <10 | >200 | >40 | >260 | 30 | 30 | >150 | <10 | 80 | 20 | >200 | 110 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 20 | <10 | 30 | 80 | 10 | 30 | <10 | 20 | <10 | <10 | 30 |
| | | ENT | 4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | 4 | <2 | 4 | <2 | 2 | <2 | 2 | 6 | <2 | 20 | <2 |
| BNB14 | 19th Street Beach | TC | <10 | <10 | <10 | >10 | 10 | <10 | 20 | <10 | 40 | 10 | <10 | >30 | 70 | 10 | >40 | 50 | 10 | <10 | NS |
| | | FC | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 80 | <10 | 10 | <10 | NS |
| | | ENT | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | 60 | <2 | 6 | <2 | NS |
| BNB15 | 15th Street Beach | TC | 80 | 10 | >180 | 10 | 150 | 10 | <10 | <10 | 40 | >110 | 10 | 50 | 210 | 40 | 60 | 30 | 10 | <10 | >120 |
| | | FC | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | 30 | <10 | 10 | <10 | <10 | 20 | <10 | <10 | <10 | 10 |
| | | ENT | 2 | <2 | 4 | <2 | <2 | <2 | 8 | <2 | 20 | 2 | 2 | 2 | 66 | <2 | <2 | <2 | 2 | 2 | 10 |
| BNB17 | 10th Street Beach | TC | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | >10 | 20 | <10 | >20 | 40 | 10 | 10 | 10 | 10 | <10 | 30 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | <10 | 10 | <10 | 10 | <10 | 10 | 10 |
| | | ENT | 2 | <2 | <2 | 8 | <2 | <2 | <2 | 2 | 2 | <2 | <2 | 6 | 2 | <2 | <2 | <2 | <2 | <2 | 2 |
| BNB18 | Alvarado/ Bay Isle Beach | TC | 20 | <10 | >60 | 10 | <10 | >10 | >10 | 30 | >30 | <200 | 40 | 10 | >20 | 10 | <10 | <10 | <10 | 10 | 40 |
| | | FC | <10 | <10 | <10 | <10 | 10 | <10 | 20 | 30 | 20 | <10 | <10 | <10 | 20 | <10 | 10 | <10 | 10 | <10 | <10 |
| | | ENT | 10 | 2 | 24 | <2 | 2 | 4 | 2 | 20 | <2 | <2 | <2 | <2 | <2 | 4 | 2 | <2 | <2 | <2 | 2 |
| BNB22 | N Street Beach | TC | 220 | <10 | 30 | <10 | <10 | 30 | 20 | <10 | 30 | >20 | <10 | <10 | >10 | 10 | <10 | <10 | <10 | 10 | <10 |
| | | FC | 130 | <10 | <10 | <10 | <10 | 20 | 50 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | | ENT | 54 | 2 | <2 | <2 | 2 | <2 | 4 | <2 | <2 | <2 | <2 | 2 | 4 | 2 | <2 | <2 | <2 | <2 | <2 |
| BNB31 | Garnet Avenue Beach | TC | >30 | <10 | >20 | >10 | >20 | >20 | >80 | >40 | >10 | >30 | >50 | >160 | 10 | 120 | >40 | 20 | 1300 | <10 | >70 |
| | | FC | <10 | <10 | 40 | 10 | <10 | 10 | >70 | 10 | <10 | 10 | 30 | 80 | <10 | >70 | 30 | 10 | <10 | <10 | 50 |
| | | ENT | 58 | 28 | 120 | 4 | 10 | 94 | 26 | 4 | <2 | 4 | 8 | 10 | 4 | 120 | 42 | 40 | 10 | 6 | 20 |
| BNB03 | Ruby Avenue Beach | TC | 10 | 30 | >20 | <10 | >20 | <10 | 10 | <10 | <10 | >20 | >70 | 20 | >180 | <10 | 40 | 20 | 10 | <10 | 30 |
| | | FC | <10 | <10 | 10 | <10 | <10 | <10 | 30 | <10 | 20 | <10 | 30 | 10 | 20 | <10 | 30 | <10 | <10 | <10 | 20 |
| | | ENT | <2 | 6 | 2 | <2 | 2 | <2 | 4 | <2 | <2 | <2 | 8 | 2 | 76 | <2 | 6 | <2 | <2 | <2 | 10 |
| BNB20 | Sapphire Avenue Beach | TC | >20 | >20 | >30 | >10 | >20 | >30 | 20 | >20 | >30 | >30 | >70 | <10 | <10 | 100 | >10 | 80 | 70 | 80 | 20 |
| | | FC | 10 | 10 | 20 | <10 | 10 | <10 | 10 | <10 | 10 | <10 | 60 | <10 | <10 | 40 | <10 | 10 | 10 | 95 | 10 |
| | | ENT | 265 | 8 | 350 | 2 | 8 | 8 | 4 | 4 | 2 | 20 | 20 | <2 | 4 | 6 | 8 | 4 | 8 | 20 | 20 |
| BNB34 | Grand Canal | TC | >130 | 30 | >20 | 100 | 80 | 40 | 80 | >30 | >30 | >110 | 230 | 50 | 240 | >390 | 30 | 95 | 10 | >60 | 10 |
| | | FC | 70 | <10 | <10 | <10 | 20 | <10 | 30 | <10 | 50 | 40 | 80 | <10 | 120 | 110 | 10 | 50 | 10 | 40 | <10 |
| | | ENT | 2 | <2 | 20 | <2 | 10 | <2 | 46 | 2 | <2 | 52 | 8 | 2 | 6 | 317 | <2 | 4 | <2 | <2 | 2 |
| BNB21 | Abalone Avenue Beach | TC | >200 | >120 | <10 | 210 | 10 | 80 | >30 | >40 | 10 | >30 | 30 | >380 | 10 | <10 | 10 | 40 | <10 | 10 | >10 |
| | | FC | 80 | 50 | <10 | 60 | 10 | 10 | 10 | 30 | <10 | >30 | <10 | 30 | <10 | 10 | <10 | <10 | <10 | <10 | 20 |
| | | ENT | 90 | 34 | 4 | 20 | <2 | 2 | 10 | 4 | 2 | 6 | <2 | 8 | 2 | <2 | 4 | 2 | <2 | <2 | 2 |
| BNB01 | Park Avenue Beach | TC | 10 | <10 | >10 | <10 | 10 | 80 | 10 | 10 | >20 | >240 | 20 | 40 | >20 | <10 | 10 | <10 | 20 | >20 | 20 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | 40 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | | ENT | 2 | 2 | <2 | <2 | <2 | 2 | <2 | 2 | <2 | 10 | <2 | <2 | 4 | <2 | <2 | <2 | 2 | 2 | 2 |
| BNB02 | Onyx Avenue Beach | TC | <10 | <10 | <10 | 20 | 10 | >40 | >20 | >20 | 30 | >10 | >230 | 10 | >100 | <10 | >40 | 10 | 40 | 20 | 40 |
| | | FC | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | 10 | 10 | <10 | <10 | 10 | <10 | 10 | 10 | <10 | <10 |
| | | ENT | 2 | <2 | 10 | 2 | 10 | <2 | 20 | <2 | 2 | <2 | 2 | 2 | 26 | 6 | <2 | 2 | 6 | <2 | 20 |
| BNB29 | Promontory Point Channel | TC | <10 | <10 | 10 | <10 | <10 | <10 | 10 | <10 | >10 | 30 | >40 | 20 | 10 | >40 | <10 | 70 | 10 | <10 | <10 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | | ENT | 2 | <2 | 4 | <2 | <2 | <2 | <2 | <2 | 2 | <2 | 2 | <2 | 8 | <2 | <2 | 2 | <2 | 6 | <2 |
| BNB33 | Bayside Drive Beach | TC | >110 | >220 | >40000 | >10 | >30 | >990 | >60 | >100 | >380 | >30 | >440 | >20 | >10 | >170 | >30 | 50 | 80 | >130 | >260 |
| | | FC | <10 | 95 | 30 | 20 | 30 | 50 | 10 | 30 | 240 | <10 | 80 | 10 | <10 | 160 | 10 | <10 | <10 | 50 | <10 |
| | | ENT | 54 | 34 | 2400 | 10 | 38 | 140 | 20 | 26 | 24 | 6 | 60 | 4 | <2 | 60 | 8 | 6 | 24 | 10 | 10 |
| BNR23 | Rocky Point Beach | TC | >30 | >10 | >20 | >130 | >30 | >10</ | | | | | | | | | | | | | |

Total Coliform (TC), Fecal Coliform (FC), Enterococcus (ENT) Colony Forming Units / 100 ml Sample

| STATION | Location Description | 5/5/14 | 5/12/14 | 5/19/14 | 5/27/14 | 6/2/14 | 6/9/14 | 6/16/14 | 6/23/14 | 6/30/14 | 7/7/14 | 7/14/14 | 7/21/14 | 7/28/14 | 8/4/14 | 8/11/14 | 8/18/14 | 8/25/14 | 9/2/14 | 9/8/14 |
|--------------------------------|---------------------------------|--------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|--------|---------|---------|---------|--------|--------|
| NEWPORT BAY (Upper Bay) | | | | | | | | | | | | | | | | | | | | |
| BNB24 | Newport Dunes - Middle | TC | >20 | >95 | <10 | >280 | >30 | >50 | <10 | 80 | >80 | >120 | 30 | 5600 | 70 | >60 | >30 | >70 | >30 | >80 |
| | | FC | <10 | 10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | 320 | <10 | 20 | <10 | <10 | 10 | <10 |
| | | ENT | <2 | 30 | 2 | 4 | 2 | 6 | <2 | <2 | 22 | <2 | 2 | 4 | 4 | 2 | <2 | 8 | 4 | <2 |
| BNB24 | Newport Dunes - West | TC | 70 | >10 | >10 | <10 | >120 | >10 | <10 | 10 | >70 | >150 | <10 | 100 | >520 | >50 | >20 | >20 | >260 | 30 |
| | | FC | 10 | <10 | <10 | <10 | 50 | <10 | <10 | <10 | 50 | <10 | <10 | 20 | 10 | 10 | <10 | <10 | 30 | <10 |
| | | ENT | 2 | 6 | 10 | <2 | <2 | 10 | <2 | <2 | 10 | <2 | 6 | <2 | 6 | 2 | 2 | 2 | 4 | 2 |
| BNB24 | Newport Dunes - East | TC | >70 | >10 | >10 | 2200 | >50 | 80 | >10 | >10 | >70 | >10 | >30 | >40 | <200 | >10 | >80 | <10 | >60 | >140 |
| | | FC | 40 | 10 | <10 | 160 | 30 | <10 | 10 | <10 | 10 | 10 | 10 | <10 | 20 | <10 | <10 | <10 | 70 | 40 |
| | | ENT | 10 | <2 | 8 | 10 | 236 | 4 | <2 | 2 | 4 | 8 | 2 | 2 | 26 | 10 | 38 | <2 | 10 | 52 |
| BNB24 | Newport Dunes - North | TC | <10 | >10 | >200 | 20 | 8800 | >20 | >10 | >60 | >20 | >50 | <10 | >10 | >10 | >40 | >80 | 40 | 10 | 20 |
| | | FC | <10 | <10 | <10 | <10 | 440 | <10 | >10 | 50 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | <10 |
| | | ENT | 26 | 8 | <2 | 4 | <2 | 8 | 2 | 10 | <2 | 2 | 4 | 10 | 4 | <2 | 44 | 2 | 2 | <2 |
| BNB25 | Vaughn's Launch | TC | >330 | >20 | NS | >20 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | >10 | NS | >10 | NS |
| | | FC | 10 | <10 | NS | <10 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | <10 | NS | <10 | NS |
| | | ENT | 48 | 2 | NS | 6 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 2 | NS | 40 | NS |
| BNB26 | Ski Zone | TC | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | FC | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | ENT | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| BNB28 | North Star Beach | TC | <10 | >10 | >10 | <10 | <10 | >10 | 50 | >20 | >40 | >70 | 20 | 20 | 10 | <10 | >95 | <10 | 50 | <10 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | 30 | 10 | <10 | 20 | <10 | <10 | <10 | <10 | <10 |
| | | ENT | 10 | 10 | <2 | 8 | <2 | <2 | <2 | 4 | 4 | 2 | 4 | 10 | 6 | <2 | 2 | 4 | 8 | <2 |
| BNB30 | De Anza | TC | 10 | >10 | >10 | <10 | >20 | >10 | 10 | 100 | >30 | >10 | 50 | >80 | <10 | >10 | 50 | 50 | 80 | 70 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 10 | <10 | <10 | 30 | <10 | <10 | <10 | <10 | <10 | 10 |
| | | ENT | 4 | <2 | <2 | 4 | 4 | 4 | <2 | 20 | 2 | 10 | 2 | 54 | <2 | 4 | 4 | <2 | 10 | <2 |
| BNB05 | Bayshore Beach | TC | 30 | <10 | >30 | <10 | >20 | >40 | 30 | <10 | <10 | 40 | 10 | 10 | 40 | 50 | 10 | <10 | 60 | >330 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 20 | <10 | 10 | 10 | <10 | 10 | <10 | 20 | 10 | <10 |
| | | ENT | 8 | <2 | 2 | 2 | 2 | 2 | 2 | <2 | <2 | <2 | 4 | <2 | <2 | <2 | <2 | 4 | 2 | 94 |
| NEWPORT BAY TRIBUTARIES | | | | | | | | | | | | | | | | | | | | |
| CNBSD | San Diego Creek - Campus Dr. | TC | >1400 | >600 | >500 | >800 | >700 | >130 | >30 | <9 | 200 | >1000 | >910 | >300 | >290 | >1300 | >100 | >270 | >1500 | >4000 |
| | | FC | 50 | 10 | 20 | <10 | <10 | 10 | >10 | <10 | 10 | >50 | 10 | >220 | 140 | >230 | >70 | 120 | 140 | >160 |
| | | ENT | >52 | 38 | 20 | 22 | 6 | 10 | 54 | 10 | 8 | 24 | 20 | 60 | 86 | 100 | 76 | 30 | 110 | 78 |
| CNBSA | Santa Ana Delhi Channel | TC | >3300 | >4100 | >2700 | >240 | >33000 | >1400 | >3300 | >5000 | >6500 | >920 | >1800 | >15000 | >2900 | >4800 | >1300 | >2400 | >2700 | >3600 |
| | | FC | >50 | 730 | 60 | 80 | 2000 | 230 | >400 | >640 | 1070 | >270 | >270 | >370 | 710 | >670 | >160 | 210 | 250 | >280 |
| | | ENT | 170 | 228 | 230 | 150 | 160 | 400 | 303 | 800 | 800 | 140 | 238 | 96 | 150 | 150 | 26 | 48 | 52 | 92 |
| CNBB | Big Canyon Creek | TC | >460 | >760 | >650 | >4000 | >5200 | >970 | >6600 | >4400 | >7200 | >7000 | >5200 | >6600 | >5400 | >8800 | >5000 | >4000 | >6200 | NS |
| | | FC | 250 | 50 | 60 | 20 | 1040 | <10 | 340 | 130 | 60 | 240 | 130 | 330 | 95 | 310 | >340 | 320 | 800 | NS |
| | | ENT | 120 | 76 | 66 | 76 | 1000 | 32 | 120 | 120 | 76 | 170 | 150 | 400 | 212 | 277 | 240 | 251 | 392 | NS |
| CNBND | Backbay Drive Pipe | TC | >1100 | NS | >1000 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | FC | <10 | NS | <10 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | ENT | 1000 | NS | 8600 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| NEWPORT SLOUGH | | | | | | | | | | | | | | | | | | | | |
| BNS01 | Lancaster Street & 61st Street | TC | >10 | >10 | >50 | >40 | >30 | <10 | >60 | >110 | >40 | >50 | 10 | >20 | 200 | >200 | 270 | 10 | >70 | >510 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 30 | 200 | <10 | <10 | 70 |
| | | ENT | <2 | 26 | <2 | 2 | 4 | 2 | 2 | 26 | 2 | 4 | 6 | <2 | 26 | 20 | 8 | 6 | 2 | 44 |
| BNS02 | Lancaster Street & Canal Street | TC | <10 | >30 | >30 | 10 | <10 | <10 | <10 | >340 | >80 | >70 | 60 | >10 | >70 | >40 | 140 | 70 | >20 | >95 |
| | | FC | <10 | 10 | <10 | <10 | <10 | <10 | 10 | 160 | <10 | 20 | <10 | 10 | 80 | 10 | 70 | <10 | <10 | 95 |
| | | ENT | 4 | 20 | 8 | 8 | <2 | 2 | 6 | 120 | 20 | 68 | 20 | 46 | 26 | 24 | 257 | 30 | 26 | 98 |

OCSD Bacteriological Ocean Monitoring Program

SPRING TIDES



City of Newport Beach

2014 Drought Emergency Water Restrictions

Frequently Asked Questions

What are the new water restrictions, and how do they apply to me?

Recently, the State passed drought emergency regulations that prohibit certain types of outdoor water use. Here's what you need to know:

- ◆ **Washing down driveways and sidewalks is prohibited.** The only exception is for health and safety related circumstances.
- ◆ **Watering outdoor landscapes in a manner that causes runoff is prohibited.** This means no water can run off of your landscape and into the gutter.
- ◆ **Using a hose to wash a motor vehicle is prohibited, unless the hose is fitted with an automatic shut-off nozzle.** This applies to all types of motor vehicles: cars, boats, etc.
- ◆ **Using potable water in a fountain or decorative water feature is prohibited, unless the water recirculates.**
- ◆ **Mandatory watering restrictions are in effect** – For details of the restrictions in your neighborhood visit www.newportbeachca.gov/water

Where can I find my designated water days?

There are four ways to locate the assigned watering days for your property(s).

1. Refer to the letter sent to each property owner and/or Home Owner Association Management Company of the property specifying the watering days assigned.
2. Locate your Municipal Services Billing Statement. In the section titled "Important Information" you will see your assigned watering days.
3. You may view your assigned watering days at www.newportbeachca.gov/water by entering your address into the section "What are my watering days?"
4. Or you may call 949-644-3388 (option 1)

Is there a telephone number I can call to report a water leak or get general information?

Yes. **949-644-3388** has been established to answer most common questions and to be routed to the best possible city representative. Many commonly asked questions and answers are located online at www.newportbeachca.gov/water. Such as: What are my assigned watering days? City permanent water use restrictions and current State law information.

How will the water restrictions be enforced?

The City of Newport Beach will notify customers (through letters, door hangers, etc.) to alert the customer of the violation that occurred. This will typically be a process that focuses on education, pointing the customer toward resources to help remedy the issue. After multiple notifications, fees or penalties could be assessed for continued non-compliance.

Note: If water agencies do not enforce the water restrictions, they can be fined up to \$10,000 per day by the State. Both water agencies and residents will be held responsible for the new statewide water restrictions; we're all in this together.

How are government agencies doing their part?

Orange County cities including the City of Newport Beach are doing numerous things to reduce water use at public properties, including, increased recycled water connections to irrigate landscapes, reducing irrigation run times, and replacing turf with drought tolerant landscapes. Even though municipalities are exempt from this law, the City is striving to set the example by following the same watering days as designated to our residential customers. The City is also considering stepping up their drought outreach programs to the public by providing additional incentives for customers to install water efficient devices. Visit www.watersmartnewport.org/rebates for rebates and other water saving programs offered.

When do the restrictions go into effect?

The new water restrictions go into effect September 10, 2014. They will remain in effect until at least April 1, 2015. At that time, the State may decide to extend the restrictions if drought conditions persist. Additional local watering restrictions may be ongoing or permanent.

What resources are available to help me reduce my water use?

There are a wide range of programs and incentives to help you reduce your daily water use. The Municipal Water District of Orange County and the City of Newport Beach offer rebates on water efficient devices, like smart sprinkler timers and rotating sprinkler nozzles; rebates for replacing turf with California Friendly landscapes; free home water use surveys, water-wise gardening classes; and much more. Visit www.watersmartnewport.org/rebates for more information.

I need to empty and refill my pool. Can I do so without getting fined?

If a new pool is installed or routine pool maintenance requires the filling of a pool the resident should fill out a "Request for Relief" form. We encourage you to fill out the application online at www.newportbeachca.gov/water. However, if you need a paper application these can be obtained at the Newport Beach Civic Center (100 Civic Center Dr.) Bay "C" counter on the first floor. No pool or outdoor spa should be filled with water more than 1 foot per week.

If I stop watering my grass and it turns brown will I get a citation?

The City applauds the efforts of those who are enthusiastically conserving water. However, despite water conservation efforts, we wish to remind you that limited watering is still required to keep landscaping looking healthy and green. Watering frequency and irrigation runtimes should be limited and applied directly avoiding hardscape areas (e.g. sidewalks and streets). City enforcement actions will be handled on a case by case basis.

Water Supply & Drought



Discussion Items

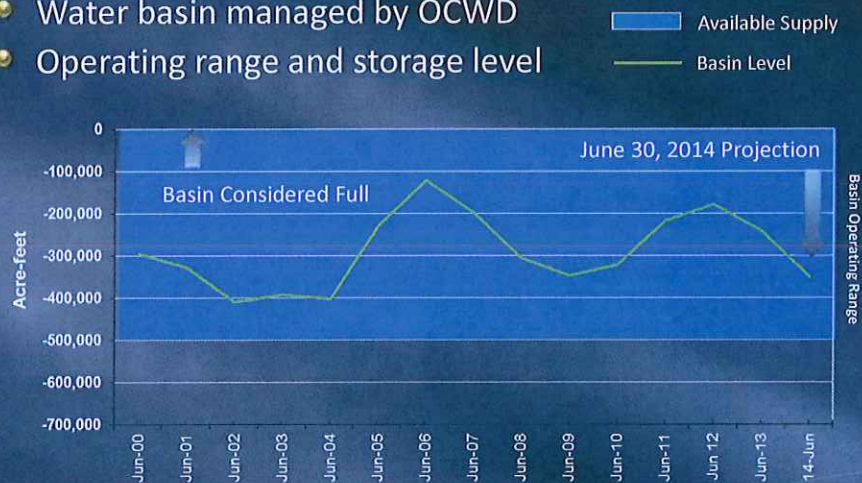
- Where we get our Water
- Water Supply Status
- Emergency State Regulations
- Newport Beach Water Supply Regulations

Where we get our Water

- 72% from groundwater:
 - Water purchased from the Orange County Water District (OCWD)
 - Four city-owned wells in Fountain Valley
- 28% from outside sources:
 - Water purchased from the Metropolitan Water District (MWD) through MWDOC
 - Mostly Colorado River water
 - Six interconnect structures

Groundwater Supply

- Water basin managed by OCWD
- Operating range and storage level



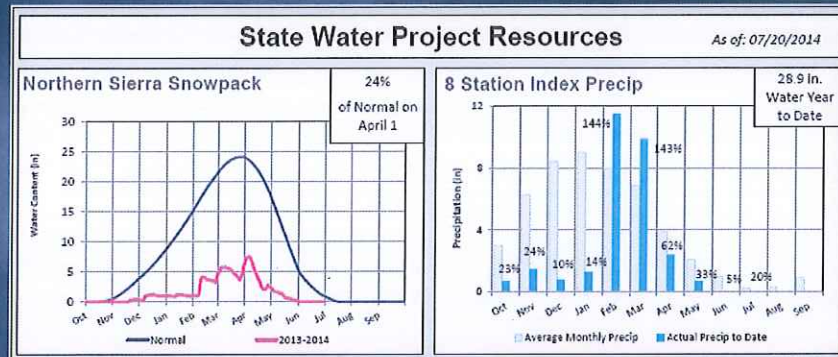
Groundwater Supply

- OCWD:
 - Purchased \$79.3M in imported water for the basin in the past three years
 - Board authorized using reserves to purchase imported water to recharge the groundwater basin
- Expanding GWRs:
 - By Feb 2015, all Sanitation District Plant 1 flows will be recycled
 - Studying ways to recycle additional 30,000 acre/foot/year from Sanitation District Plant 2

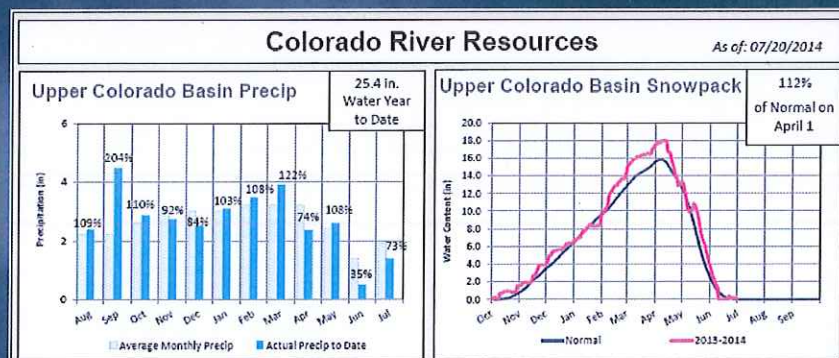
Import Water Supply



State Water Project Resources



Colorado River Resources



Northern California Snow Survey



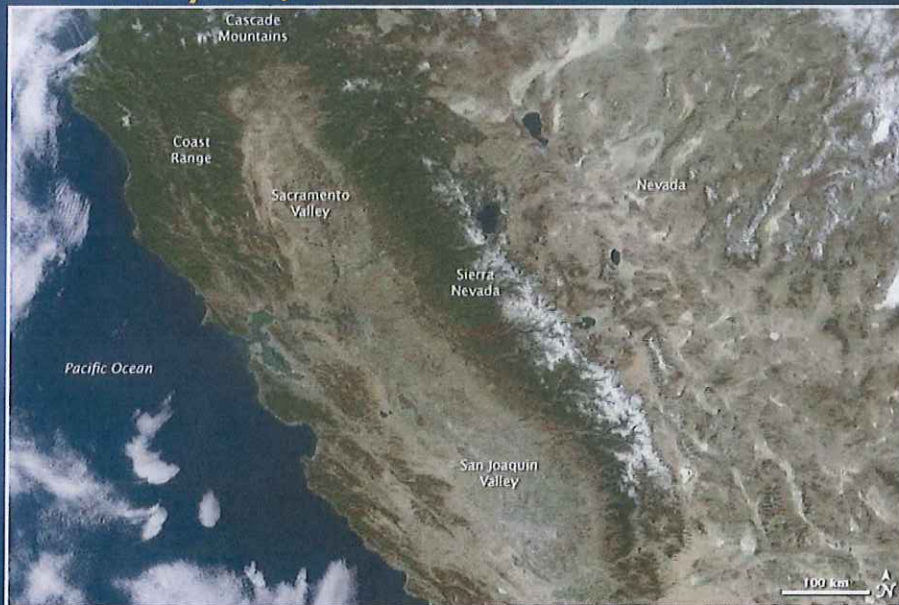
**Driest January
Snowpack
on Record**



January 18, 2013



January 18, 2014



Drought Monitor

U.S. Drought Monitor California

September 9, 2014
(Released Thursday September 11, 2014)
Valid 8 a.m. EDT

Statistics type: ☒ Traditional (D0-D4, D1-D4, etc.) ☐ Categorical (D0, D1, etc.)
Drought Condition (Percent Area)

| Week | Date | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|------------------------|------------|------|--------|--------|--------|-------|-------|
| Current | 2014-09-09 | 0.00 | 100.00 | 100.00 | 95.42 | 81.92 | 50.41 |
| Last Week | 2014-09-02 | 0.00 | 100.00 | 100.00 | 95.42 | 81.92 | 50.41 |
| 3 Months Ago | 2014-06-10 | 0.00 | 100.00 | 100.00 | 100.00 | 76.68 | 24.77 |
| Start of Calendar Year | 2013-12-31 | 2.61 | 97.30 | 94.25 | 87.53 | 27.59 | 0.00 |
| Start of Water Year | 2013-10-01 | 2.63 | 97.37 | 95.95 | 84.12 | 11.36 | 0.00 |
| One Year Ago | 2013-09-10 | 0.00 | 100.00 | 97.08 | 82.94 | 11.36 | 0.00 |

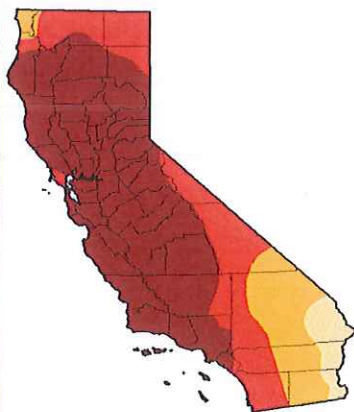
Population Affected by Drought 37,253,959

[View More Statistics](#)

Intensity:

D0 - Abnormally Dry
D1 - Moderate Drought
D2 - Severe Drought

D3 - Extreme Drought
D4 - Exceptional Drought



Emergency State Regulations

- July 15, 2014 State Water Resources Control Board (SWRCB) adopted emergency regulations for statewide urban water conservation
- Prohibited Activities are:
 - Use of water causing runoff
 - Use of hose without shutoff nozzle device
 - Application of water to driveways/sidewalks
 - Use of water for fountains without recirculating system
- Authorizes local agencies to fine up to \$500 for infractions of prohibited activities

SWRCB Regulation Article 22.5

- Section 865 says that City must:
 - Implement a stage of its water shortage contingency plan that imposes restrictions on outdoor irrigation
 - Submit a monitoring report to SWRCB each month
- Agencies with allocation based rate structures may submit for approval an alternate plan equal to two days of irrigation per week

NBMC Chapter 14.16

- Permanent Mandatory Water Conservation Requirements (Section 14.16.040)
 - Meets all State requirements for prohibited activities
- First stage of water shortage contingency plan is Level One Mandatory Water Conservation Requirements (Section 14.16.060)
 - Sets irrigation schedule to 4 days per week (Apr-Oct) and 2 days a week (Nov-Mar)
 - Sets all customer usage between 90%-100% of base amount. (3-year moving average)

Base Amount

- If every user used 100% of average base amount we would achieve the required level of conservation
 - The base amount is a 3-year moving average of the customer's usage during that same billing period
- For those customers who do not have 3 years of data, then the base amount will be the estimate of the water usage for a similar premises or user

City of Newport Beach
Revenue Division
P.O. Box 1935
Newport Beach, CA 92658-0935
www.newportbeach.gov

MUNICIPAL SERVICES STATEMENT

ACCOUNT SUMMARY

Name: _____
 NSID #: _____
 Account #: _____
 Service Address: _____
 Meter #: _____
 Statement Date: 7/10/2014
 Due Date: 8/11/2014
 Total Amount Due: \$110.70

BILLING DETAILS

Water Conservation Rebate: \$50
 SERVICE PERIOD: 05/15/14 to 07/10/14
 Current Reading: 433

| WATER CHARGES: | QTY: | RATE: | TOTAL: |
|-----------------------|-------|---------|---------|
| 1 WATER USE HCF | 12.00 | \$3.00 | \$36.00 |
| WATER SERVICE (307) | 1.00 | \$34.54 | \$34.54 |
| WATER SERV. (MULTIPL) | 1.00 | \$2.00 | \$2.00 |

| SEWER CHARGES: | QTY: | RATE: | TOTAL: |
|-------------------------|-------|--------|--------|
| 1 SEWER USE HCF | 12.00 | \$9.35 | \$4.20 |
| SEWER SERVICE (MULTIPL) | 1.00 | \$4.00 | \$4.00 |

WATER USAGE AND CONSERVATION

■ Current ■ Prior Year □ 3 Year Avg

Total Gallons Used:

Current: 8,976
 Same Period Last Year: 11,220
 3 Year Average: 11,469

Avg Gallons/Day:

Current: 157.47
 Same Period Last Year: 172.62

Number of Days this Period: 57

Same Period Last Year: 65

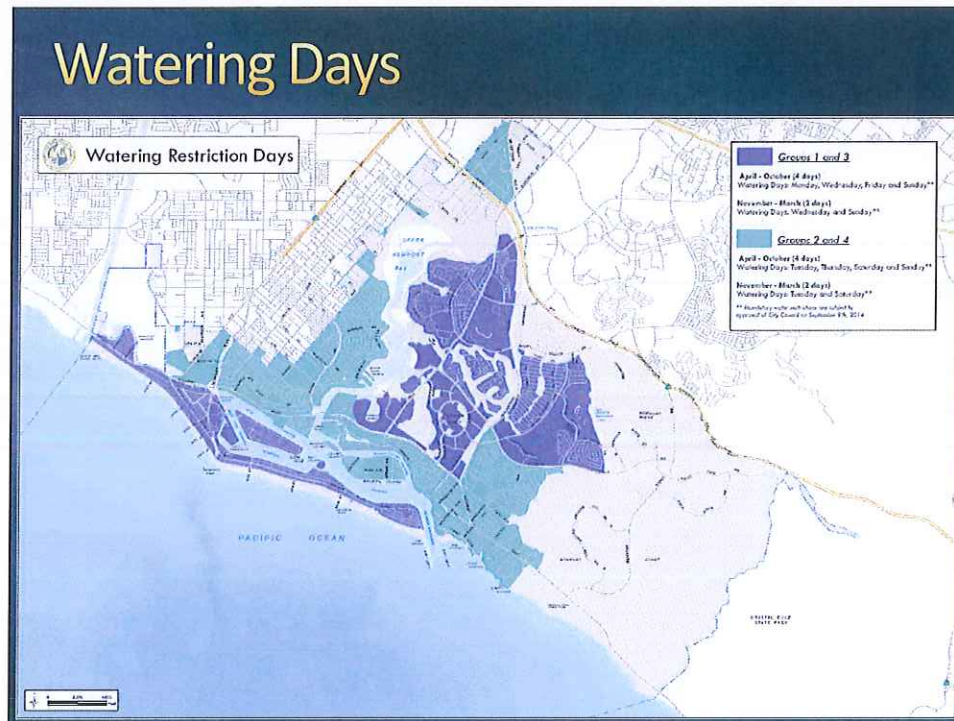
Phone: _____
 E-mail: _____

Total Amount Due: \$110.70
 Amount Enclosed: _____

NOTED: For Future Notice
 Payment of this bill is required by 8/11/2014

CITY OF NEWPORT BEACH
 P.O. BOX 1935
 NEWPORT BEACH, CA 92658-0935

AC00000055020200600000110700



Exemptions

- Exempted in Level One:
 - Maintenance of vegetation watered by bucket, hand held nozzle or drip system
 - Irrigation of food crops
 - Maintenance of irrigation system (testing/repair)
- Always exempt:
 - Water used for public health/safety
 - Public pool refilling
 - Fuel modification areas
 - Hospitals, medical facilities, and vegetation businesses

Relief from Compliance

- Customers that have installed water saving devices or have implemented conservation practices
- Unique circumstances resulting in undue hardship
- Customers may file an application for relief

Future Actions

- Implementation to include:
 - Public outreach/education
 - Notices, web, hotline, social media
 - Violation warnings
 - Administrative citations
 - Staffing

Other Actions

- Continue water conservation activities
 - Public outreach, education, rebate programs, home audits, smart water program, and more...
 - www.watersmartnewport.org
- City water use audit and adjust irrigation systems
- Discuss future increase in incentives (City contributions)

Questions?

- Web sites for more information
 - www.newportbeachca.gov/water
 - www.watersmartnewport.org
 - www.bewaterwise.com
 - www.ca.gov/drought



Water Use and Customer Response

Shane Burckle
Water Conservation Coordinator
sburckle@newportbeachca.gov
949.644.3214

GPCD Residential and Commercial

Report Date: 09/04/2014

Monthly Totals

| Meter Type | Total Customers | Total gallons used | Baseline Target | Difference (Gal) | Difference (MG) | Difference (AF) | Percentage of current use over target | Number of customers over 100% | Percentage of customers over target |
|-------------------|-----------------|--------------------|-----------------|------------------|-----------------|-----------------|---------------------------------------|-------------------------------|-------------------------------------|
| SINGLE FAMILY RES | 19,799 | 208,294,674 | 197,169,024 | 11,125,650 | 11.34 | 50.13 | 8% | 9,688 | 49% |
| MULTI FAMILY RES | 2,095 | 40,994,578 | 34,203,225 | 6,791,353 | 6.79 | 11.70 | 8% | 1,613 | 77% |
| COMMERCIAL | 1,293 | 103,192,340 | 93,433,146 | 9,759,194 | 9.56 | 29.33 | 9% | 570 | 45% |
| CITY METER | 122 | 9,423,304 | 9,137,194 | 286,110 | 0.29 | 0.88 | 3% | 34 | 31% |
| SPRINKLER | 789 | 118,347,812 | 83,972,212 | 34,375,600 | 34.37 | 105.40 | 29% | 483 | 66% |
| CITY SPRINKLER | 294 | 21,818,676 | 17,079,084 | 4,739,592 | 4.60 | 14.73 | 23% | 105 | 56% |

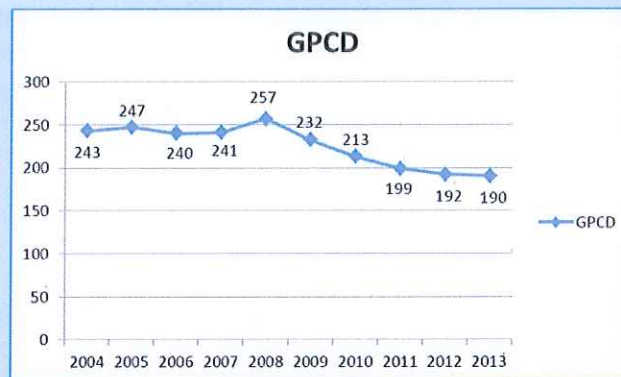
| | | | |
|---------------|--------------|--------|--|
| Gallons/Month | Gallons/Day | R-GPCD | Residential Gallons Per Capita Per Day |
| 269,493,864 | 8,983,105.47 | 137.04 | |
| GPCD All | 17,411,116 | 255.61 | All use - Gallons Per Capita Per Day (excludes fire flow, hydrants, boat docks, pump stations, etc.) |

This is what we would save if everyone used their 3-yr average

| | | |
|------------------------|-----|--|
| Residential Percentage | 57% | Residential percentage of all water used |
|------------------------|-----|--|

| | | | | |
|------------------------------------|----------|-------|----------|--|
| Water Production (AF) For month of | 84-34 | 12-13 | 1,733.56 | Water Produced in Acre-Feet (Data received from Water Production Division) |
| | 1,805.29 | | | |

GPCD Residential and Commercial

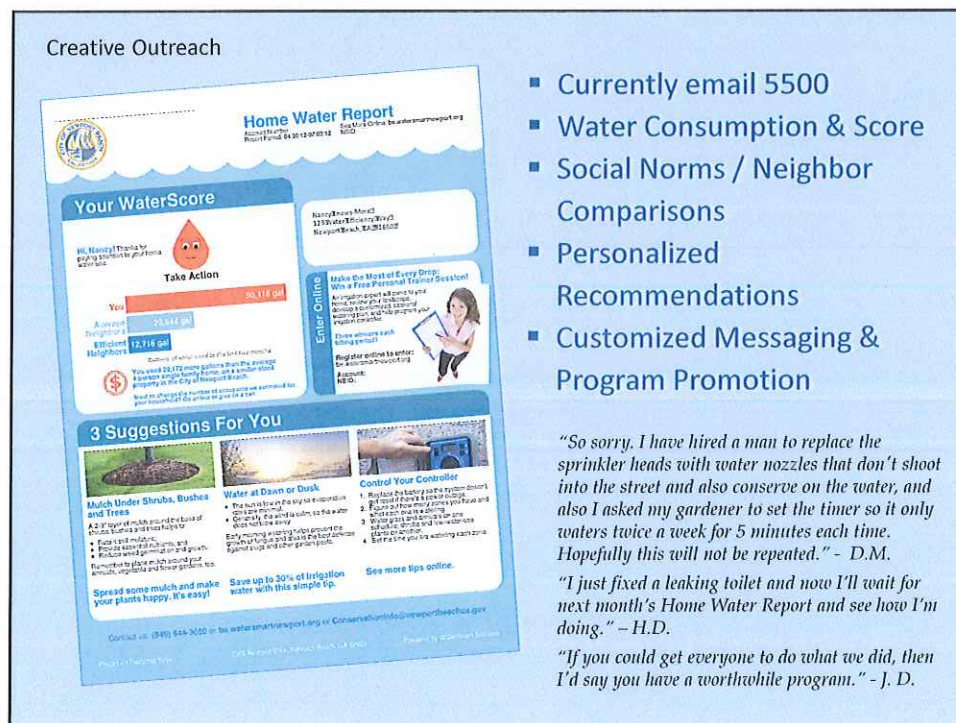
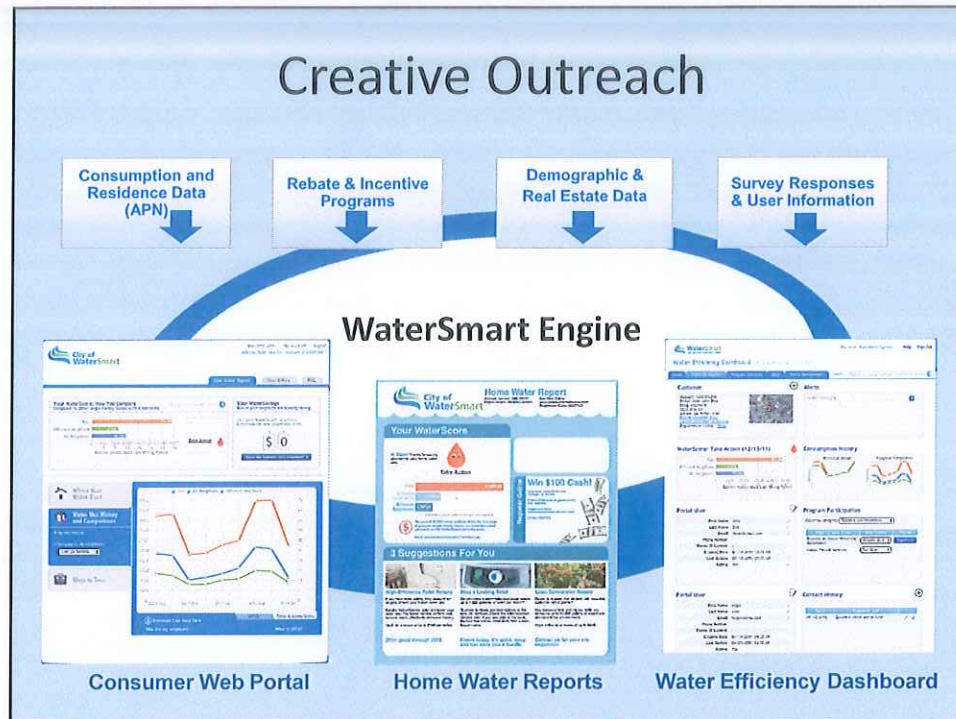


2015 Baseline 228 GPCD
20x 2020 Baseline is 203 GPCD

Newport Beach Residents Respond



| | Residential | Commercial | Cumulative Water Savings (AF) |
|------------------------|-------------|------------|-------------------------------|
| Clothes washer | 2409 | | 469 |
| Smart Timers | 969 | 345 | 1649 |
| Rotating Nozzles | 45870 | 16886 | 706 |
| Water Audits (meters) | | 1432 | 1158 |
| Turf Removal | 29996 | | 16.17 |
| High Efficient Toilets | 310 | | 77.97 |
| ULF Toilets | 7219 | | 3166 |
| | | | 7,242.14 |
| Prop 84 Grant | | | Actual Savings (AF) |
| Smart Timers | 1202 | 156 | 106 |
| Rotating Nozzles | 84274 | 9018 | 6 |
| | | | 112 |



Creative Outreach Water Savings

74.7 AF/yr. reduction or
24 million gallons saved!

5500 email reports
Potential 18,500

"So sorry. I have hired a man to replace the sprinkler heads with water nozzles that don't shoot into the street and also conserve on the water, and also I asked my gardener to set the timer so it only waters twice a week for 5 minutes each time. Hopefully this will not be repeated." - D.M.

"I just fixed a leaking toilet and now I'll wait for next month's Home Water Report and see how I'm doing." - H.D.

"If you could get everyone to do what we did, then I'd say you have a worthwhile program." - J. D.



Questions